

## NGST

# Proton • Performance

- o Escape (C3 =  $0 \text{ km}^2/\text{sec}^2$ ): 4800 kg
  - o 1 AU x 3 AU (C3 = 45 km<sup>2</sup>/sec<sup>2</sup>): 1660 kg (assuming late fairing drop)
  - o 1 AU x 5 AU (C3 =  $77 \text{ km}^2/\text{sec}^2$ ): <400 kg

#### • Fairing/Payload Envelope

- o 4.35 m composite fairing
- o Envelope maximum cylindrical diameter: 3.88 m
- o Envelope overall length: 7.3 m
- Envelope cylindrical section length: 3.5 m

#### • Fairing Growth Plans

o 5 m class fairing under development

### • Launch Availability

o Baikonur Cosmodrome: 2 pads

#### • Basic Launch Service Cost

- \$50-70M (AIAA International Reference Guide to Space Launch Systems)
- o Possibility of Russia-provided launch under cooperative program

http://www.lmco.com/ILS/txtmain/design\_proton.htm

Launch Services & Transportation Projects Office

